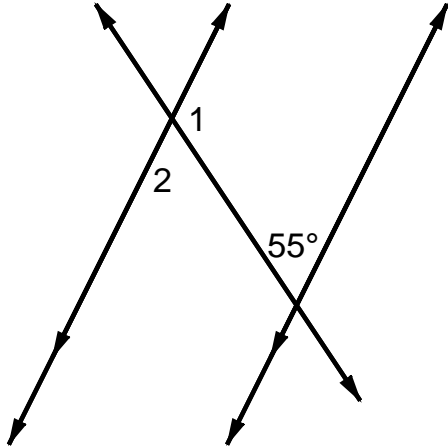


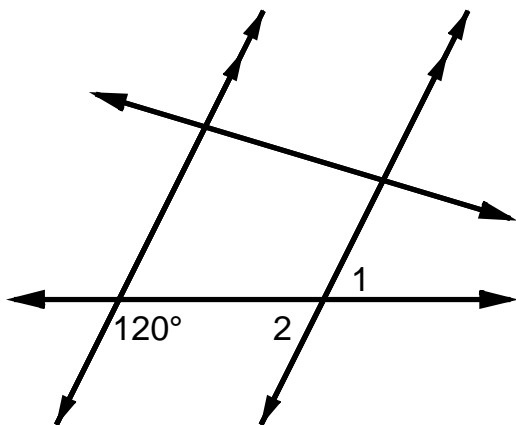
Worksheet 3.3 Parallel Lines

Find $m\angle 1$ and then $m\angle 2$. State the theorems or postulates that justify your answers.

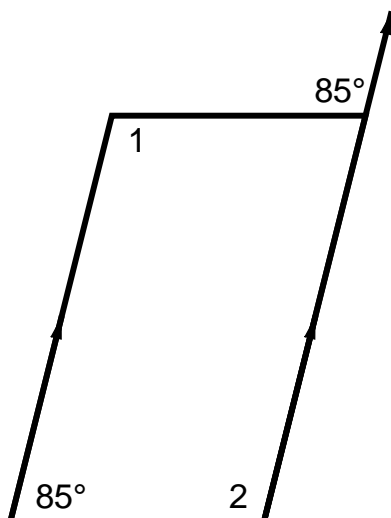
1.



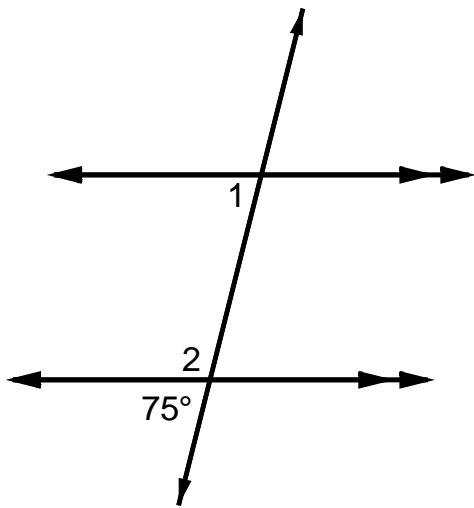
2.



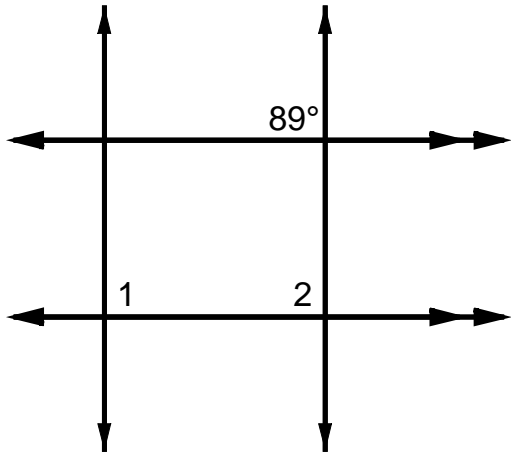
3.



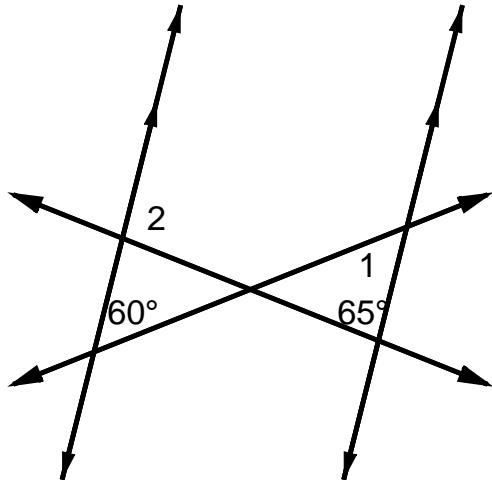
4.



5.

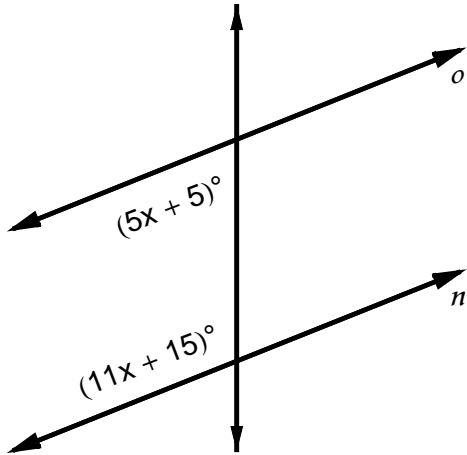


6.

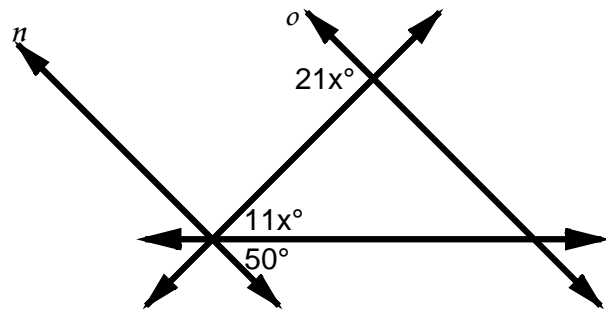


Determine the value of x for which $n \parallel o$.

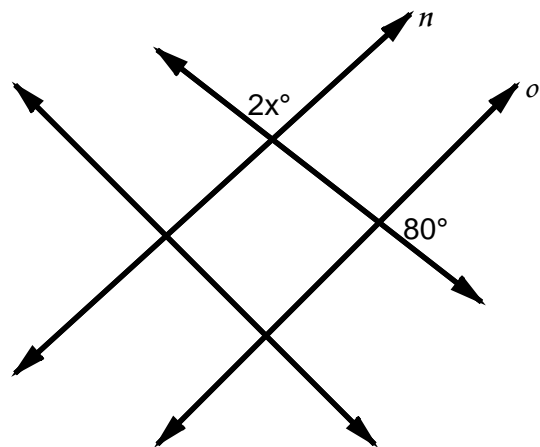
7.



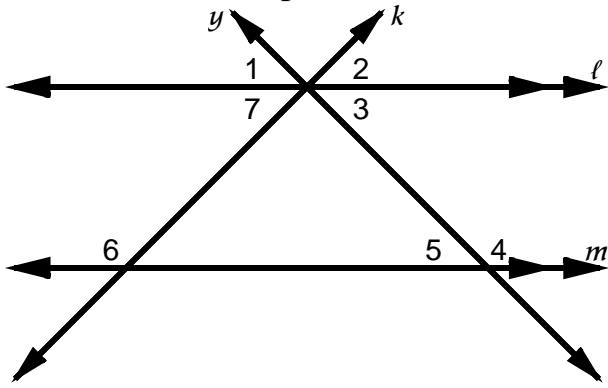
8.



9.



State the theorem, postulate, or definition that justifies each statement.



10. $m\angle 3 + m\angle 4 = 180$

11. $\angle 1 \cong \angle 5$

12. $\angle 3 \cong \angle 5$

13. $\angle 1$ and $\angle 3$ are vertical angles

14. $\angle 7 \cong \angle 2$

15. $m\angle 5 + m\angle 4 = 180$